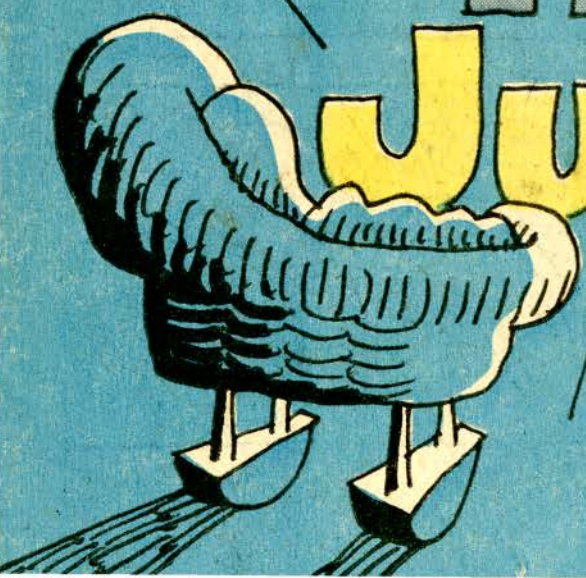
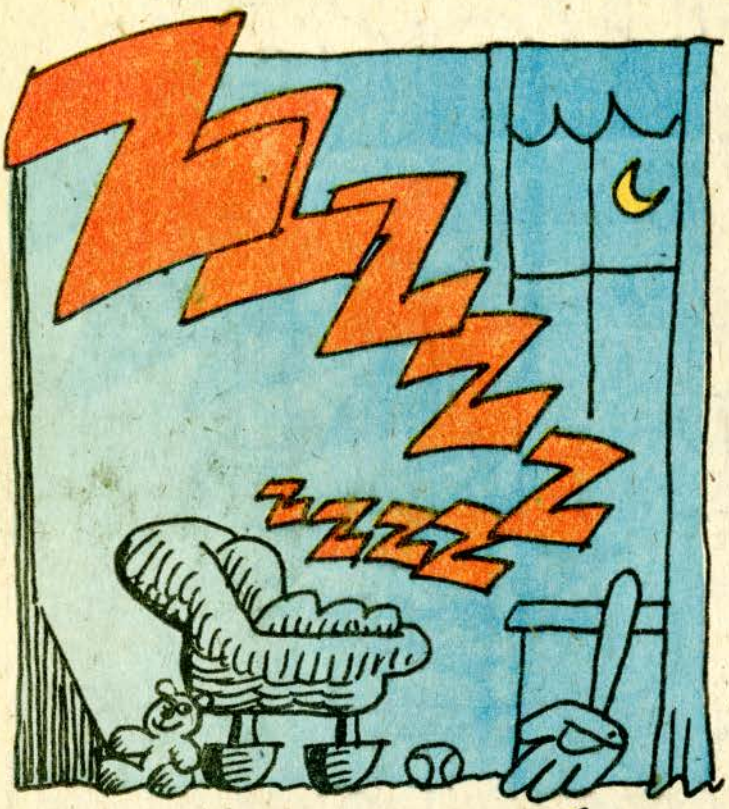
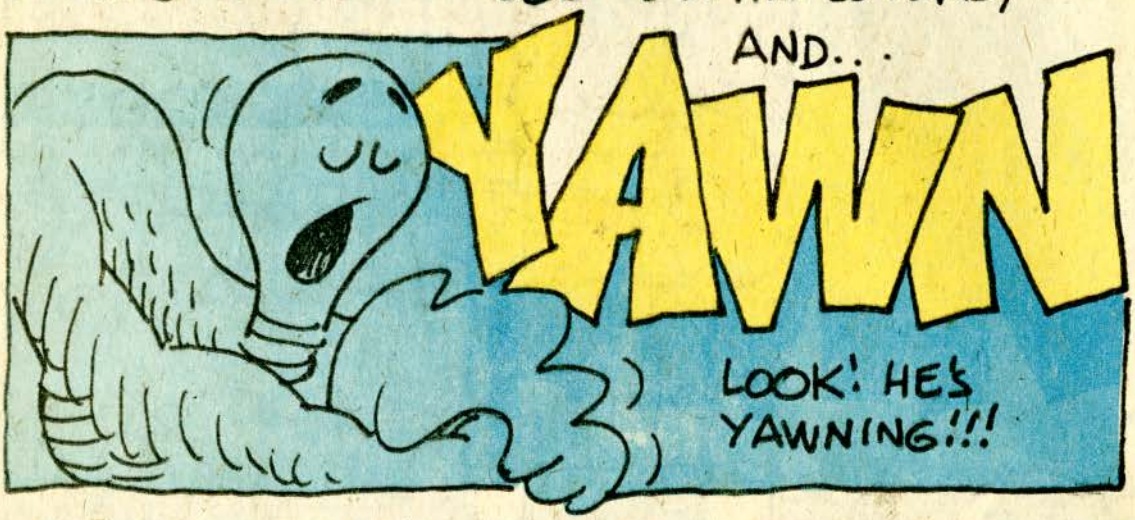
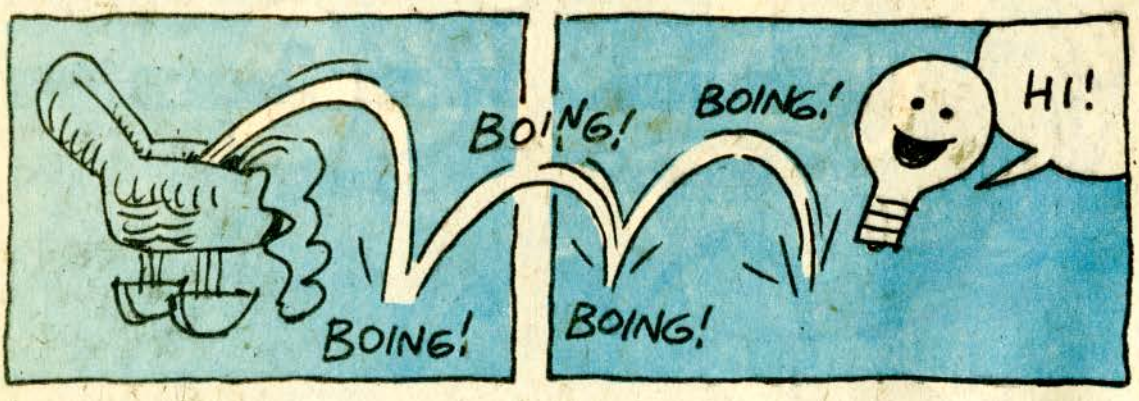
Where The Little Light Bulb Gets Its Juice

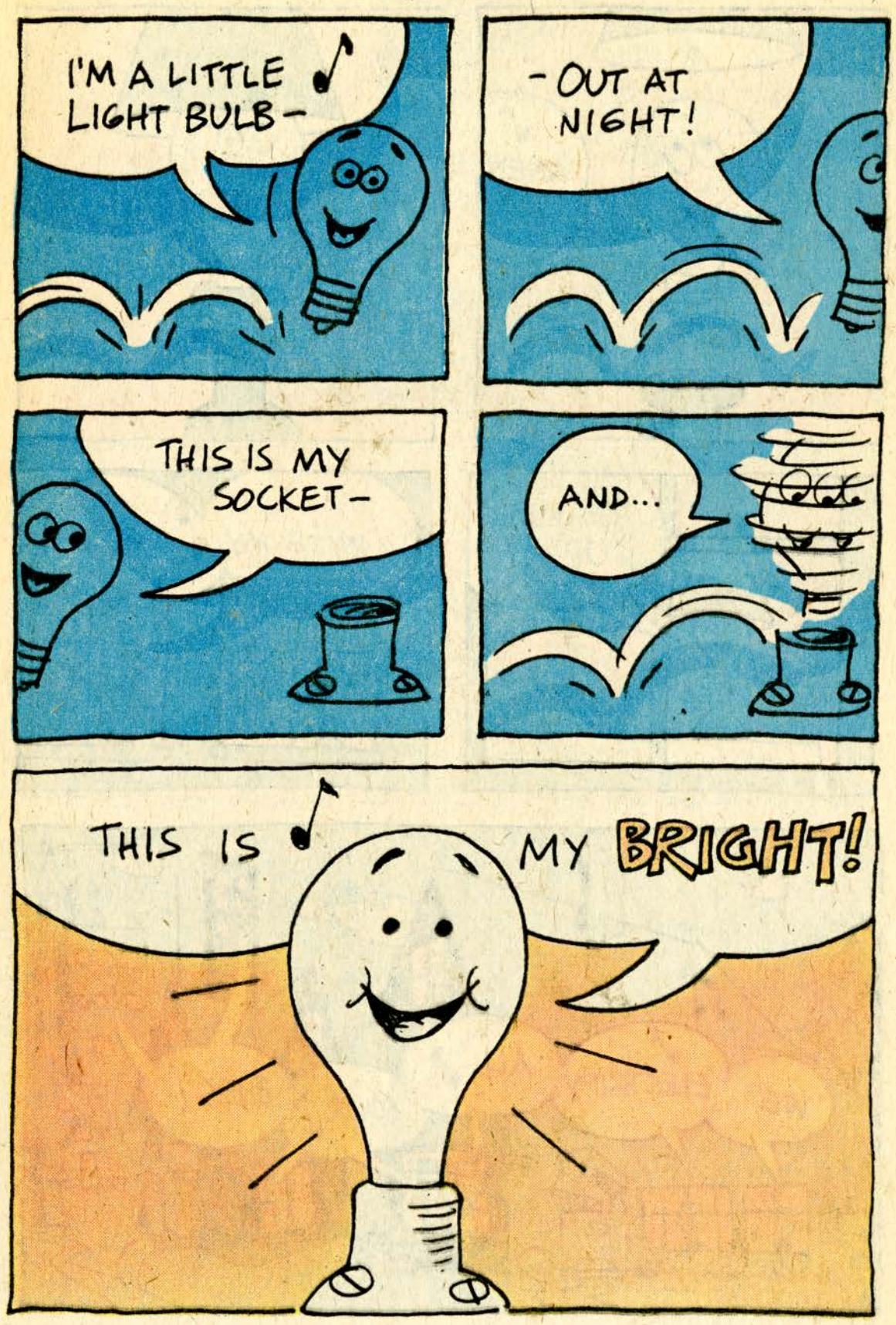


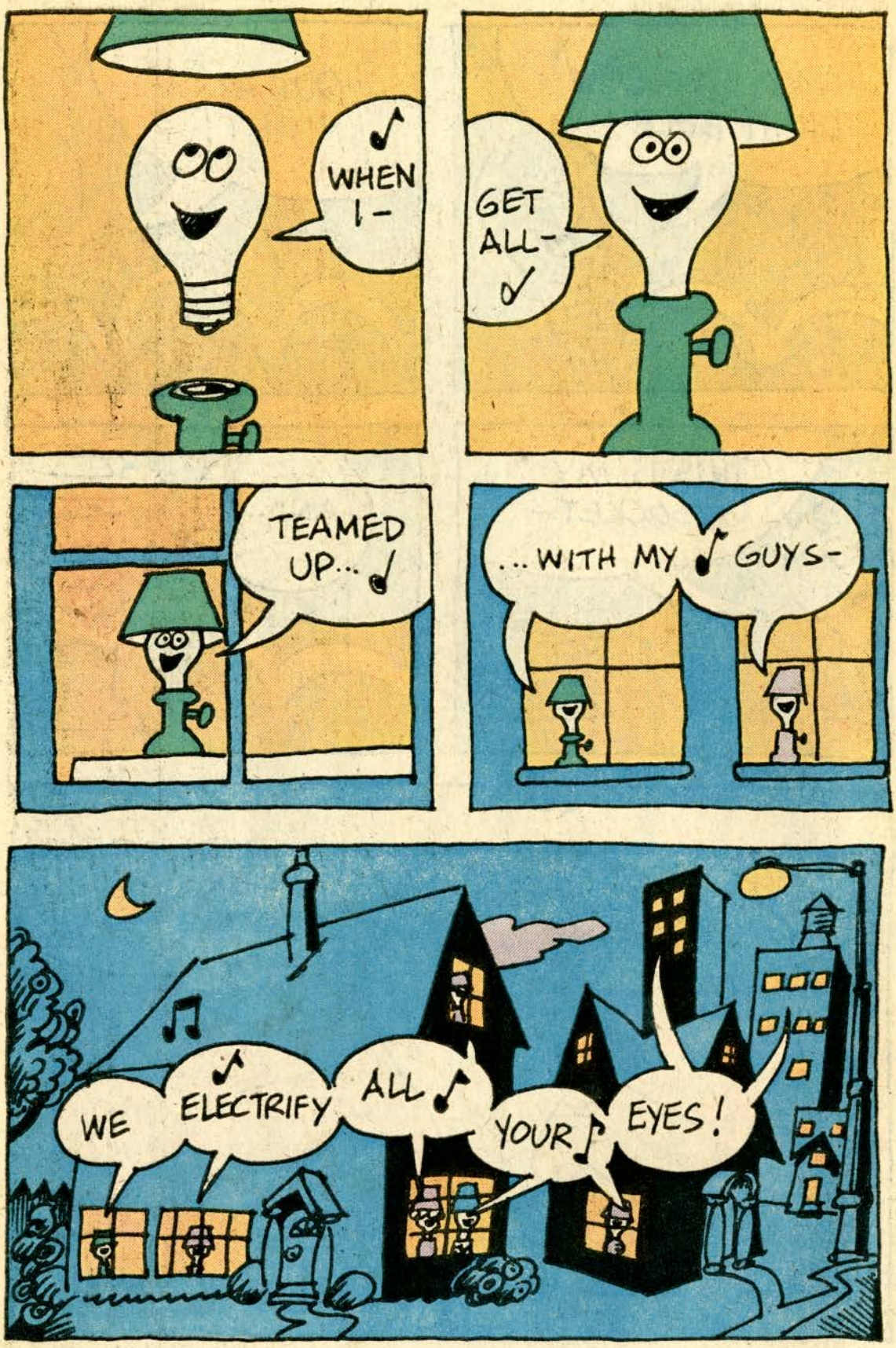


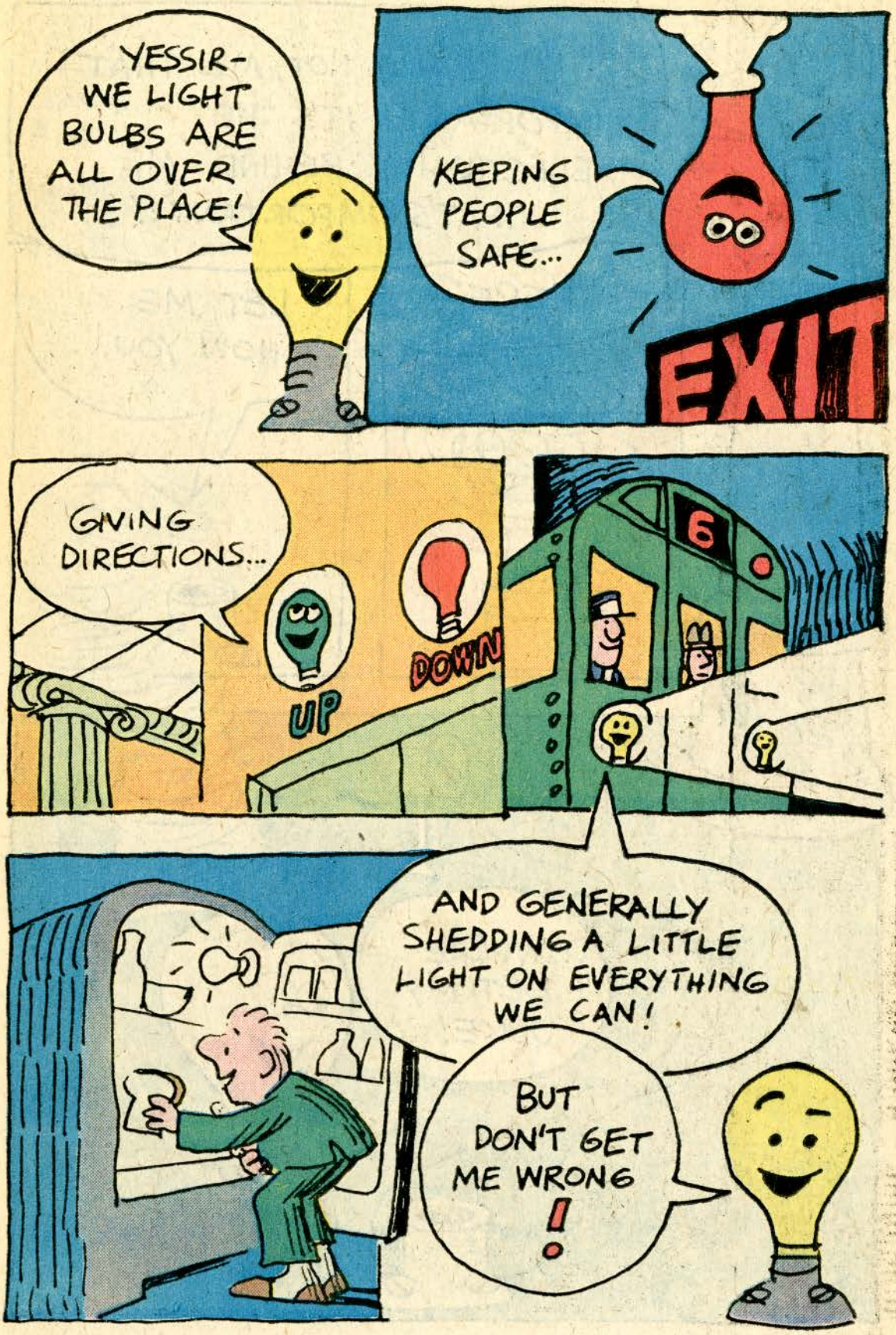
SNUG AS A BUG IN A RUG OUR HERO IS HARD AT SLEEP IN HIS OWN LITTLE CRIB. MAYBE HE'S DREAMING... – WAIT A MINUTE! HE'S TOSSING OFF HIS COVERS, AND...

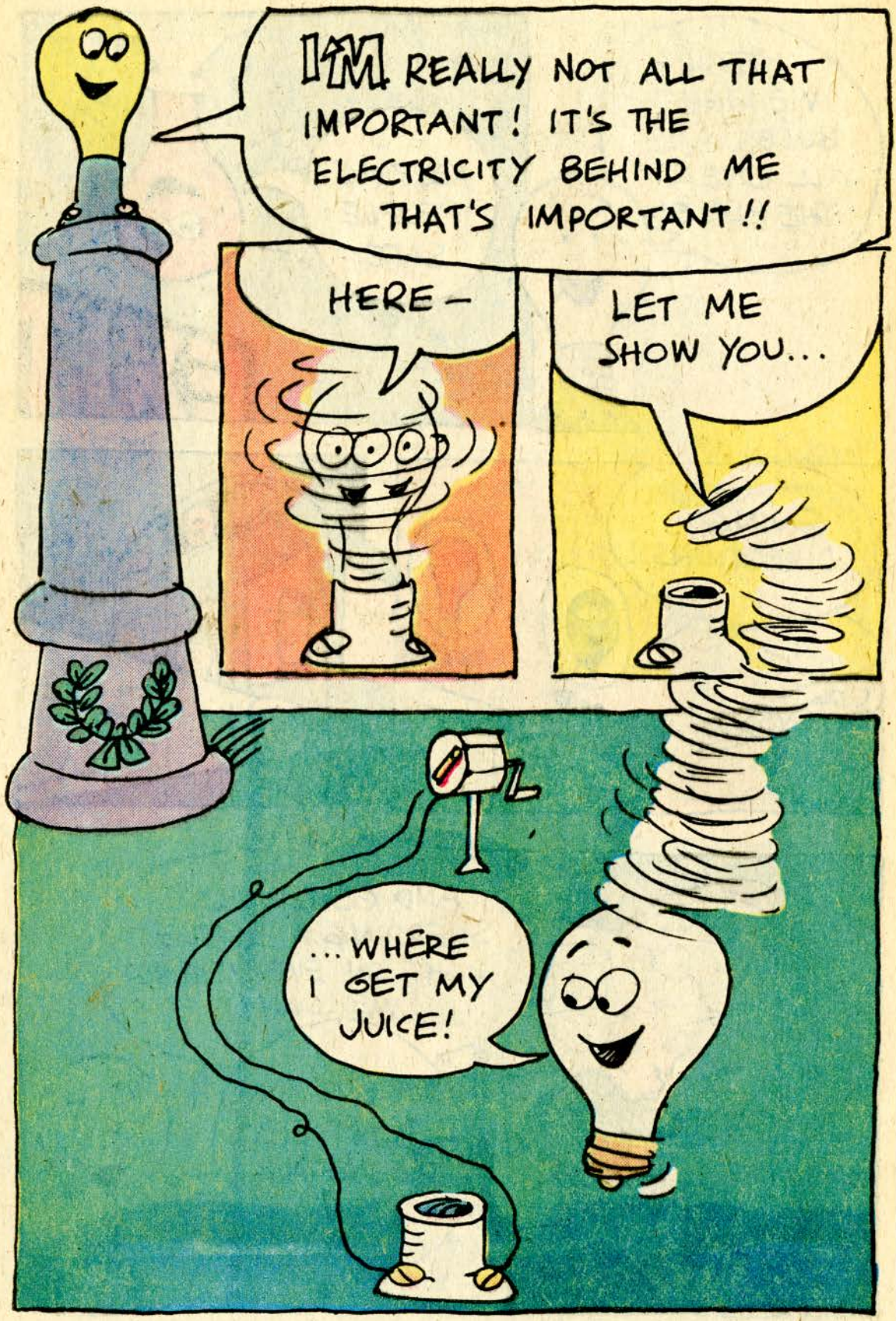


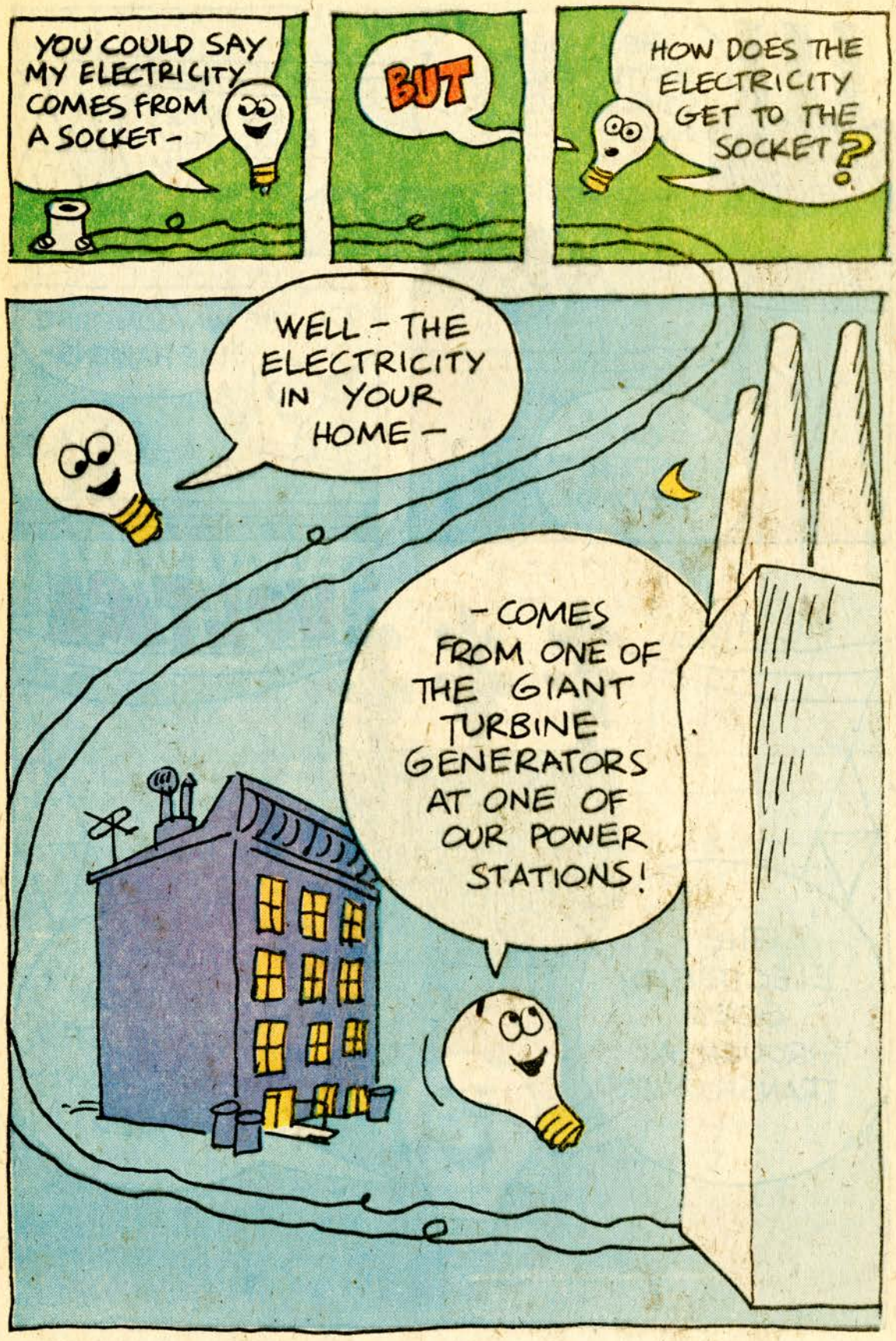


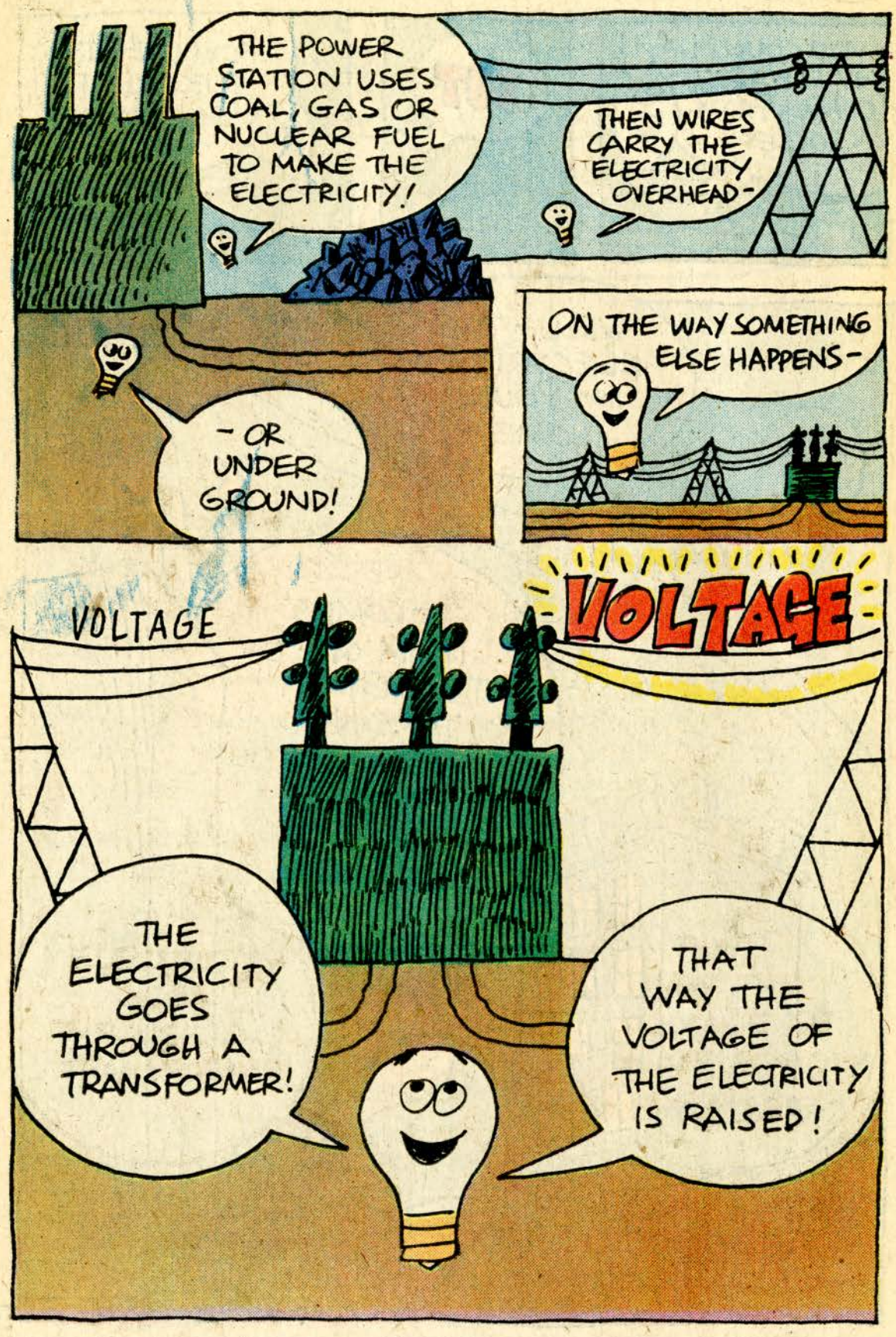

I'M A LITTLE LIGHT BULB-
-OUT AT NIGHT!
THIS IS MY SOCKET-
AND...
THIS IS MY BRIGHT!

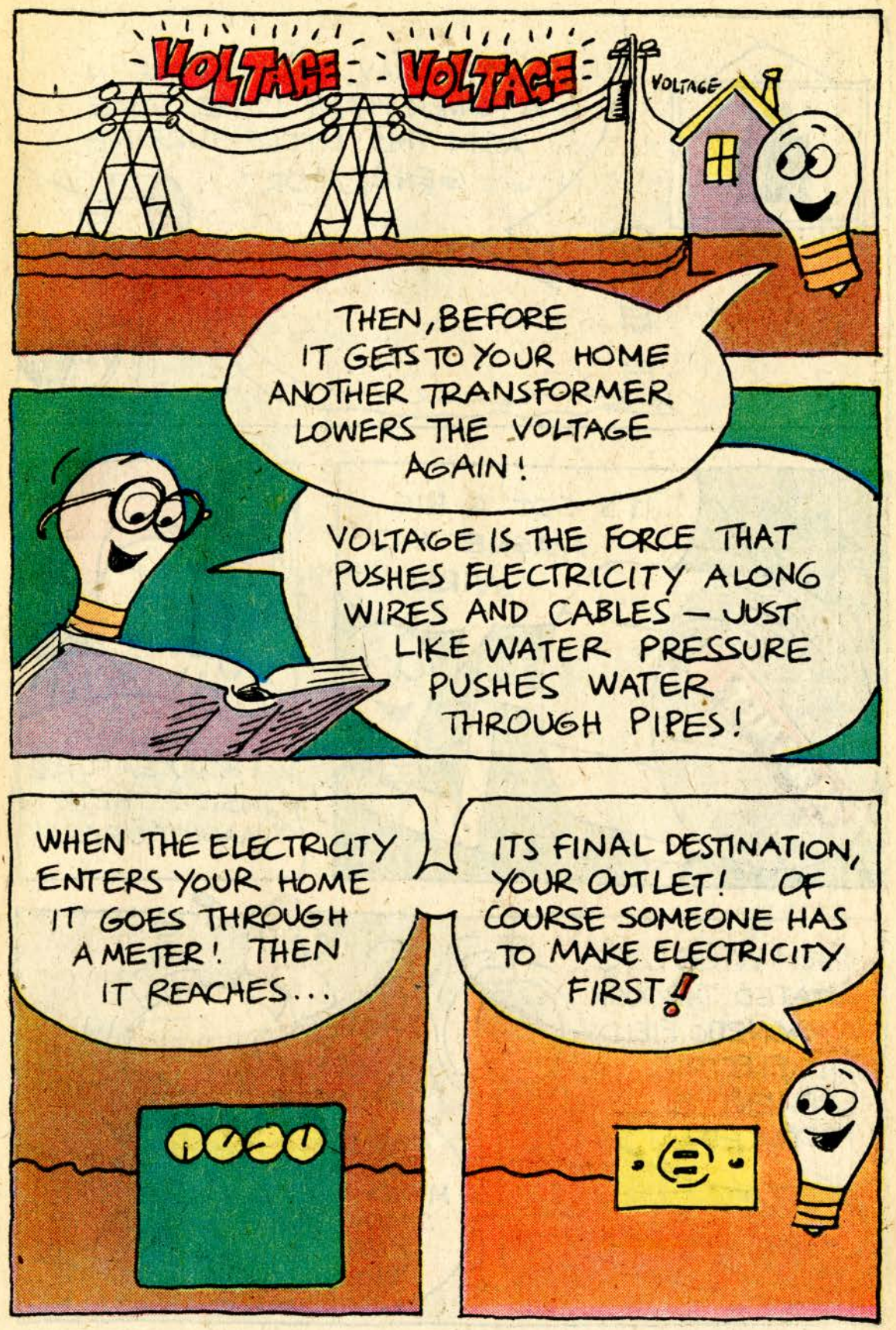

WHEN I-
GET ALL-
TEAMED UP...
...WITH MY GUYS-
WE
ELECTRIFY
ALL
YOUR
EYES!

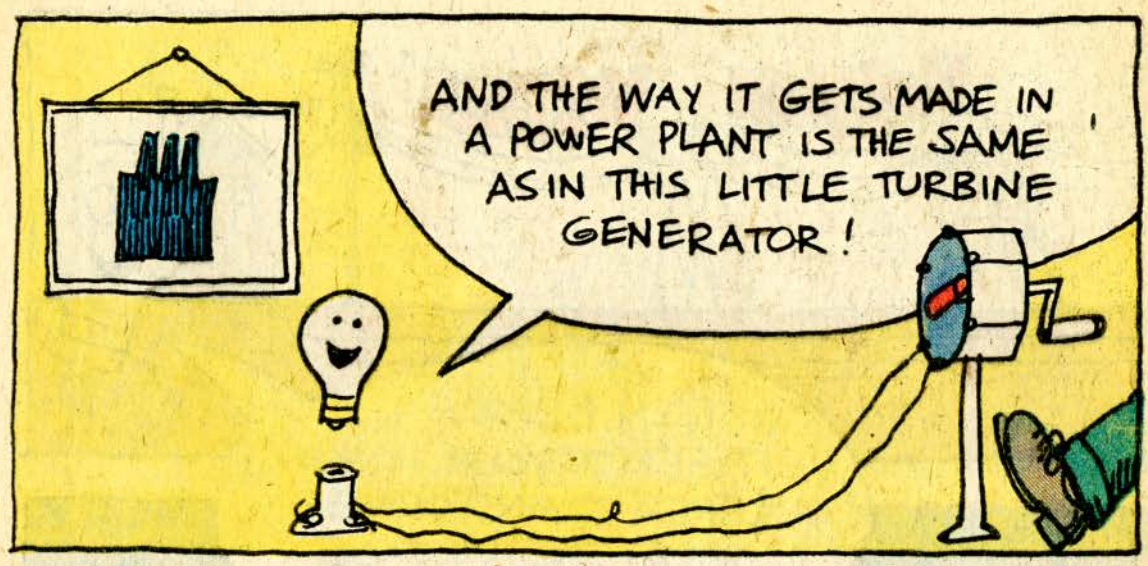

YESSIR- WE LIGHT BULBS ARE ALL OVER THE PLACE!
KEEPING PEOPLE SAFE...
EXIT
GIVING DIRECTIONS...
UP
DOWN
6
AND GENERALLY SHEDDING A LITTLE LIGHT ON EVERYTHING WE CAN!
BUT DON'T GET ME WRONG!

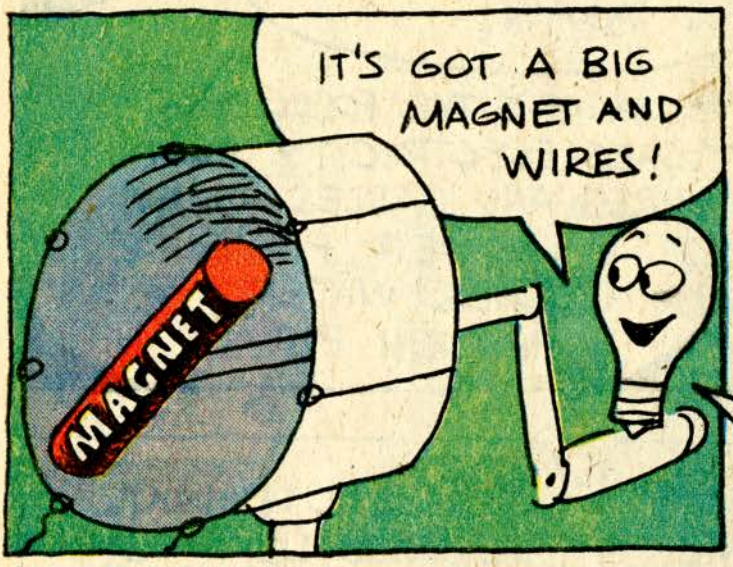

I'M REALLY NOT ALL THAT IMPORTANT! IT'S THE ELECTRICITY BEHIND ME THAT'S IMPORTANT!!
HERE –
LET ME SHOW YOU...
...WHERE I GET MY JUICE!


YOU COULD SAY MY ELECTRICITY COMES FROM A SOCKET -
BUT
HOW DOES THE ELECTRICITY GET TO THE SOCKET?
WELL - THE ELECTRICITY IN YOUR HOME -
- COMES FROM ONE OF THE GIANT TURBINE GENERATORS AT ONE OF OUR POWER STATIONS!

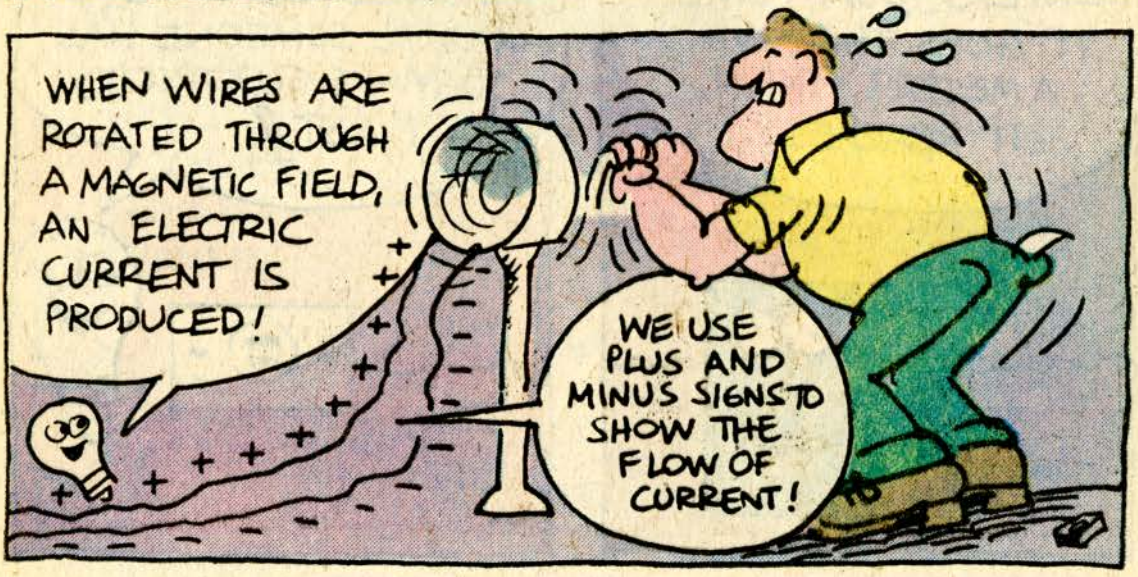

THE POWER STATION USES COAL, GAS OR NUCLEAR FUEL TO MAKE THE ELECTRICITY!
THEN WIRES CARRY THE ELECTRICITY OVERHEAD-
-OR UNDER GROUND!
ON THE WAY SOMETHING ELSE HAPPENS-
VOLTAGE
VOLTAGE
THE ELECTRICITY GOES THROUGH A TRANSFORMER!
THAT WAY THE VOLTAGE OF THE ELECTRICITY IS RAISED!

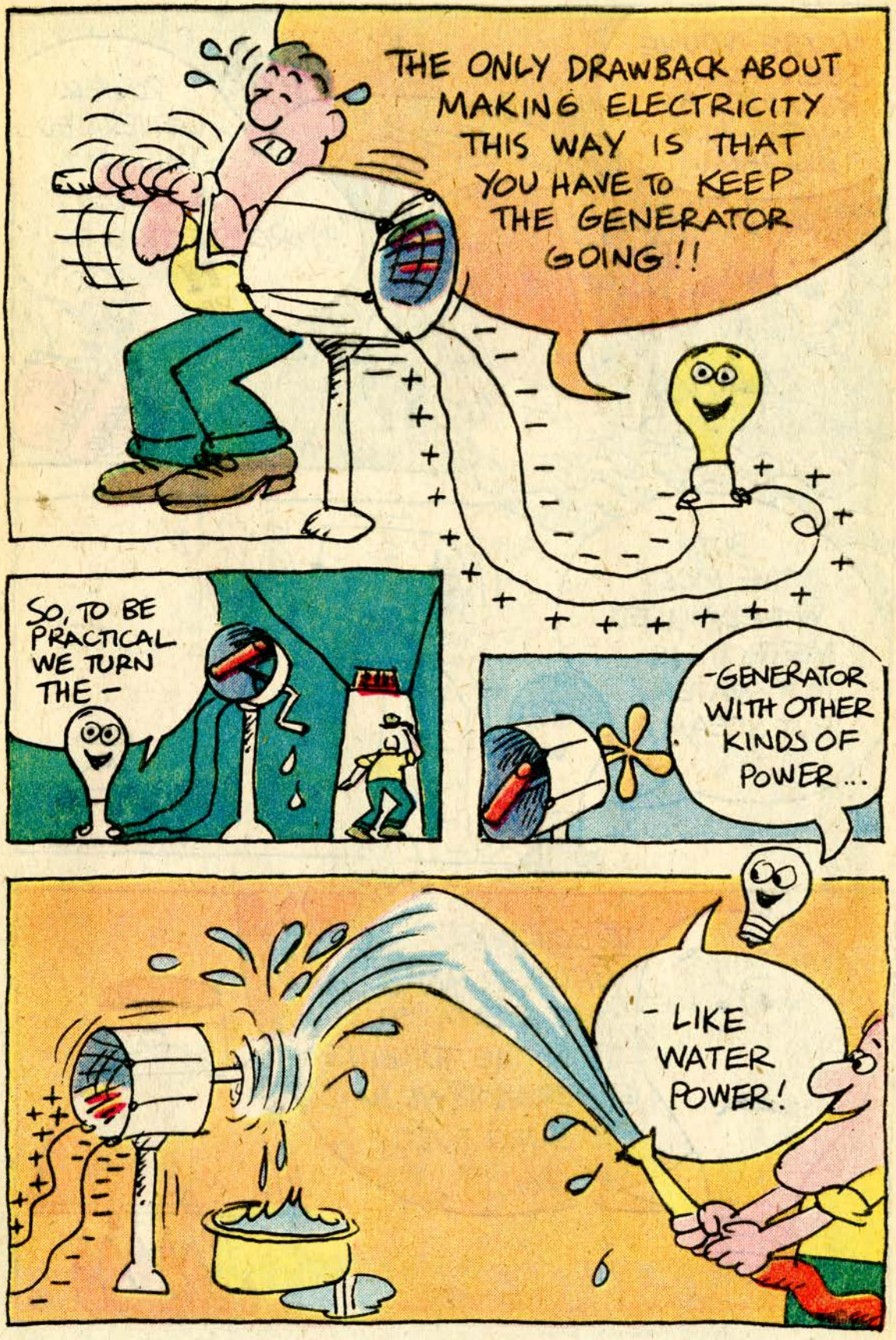

VOLTAGE
VOLTAGE
VOLTAGE
THEN, BEFORE IT GETS TO YOUR HOME ANOTHER TRANSFORMER LOWERS THE VOLTAGE AGAIN!
VOLTAGE IS THE FORCE THAT PUSHES ELECTRICITY ALONG WIRES AND CABLES — JUST LIKE WATER PRESSURE PUSHES WATER THROUGH PIPES!
WHEN THE ELECTRICITY ENTERS YOUR HOME IT GOES THROUGH A METER! THEN IT REACHES...
ITS FINAL DESTINATION, YOUR OUTLET! OF COURSE SOMEONE HAS TO MAKE ELECTRICITY FIRST!

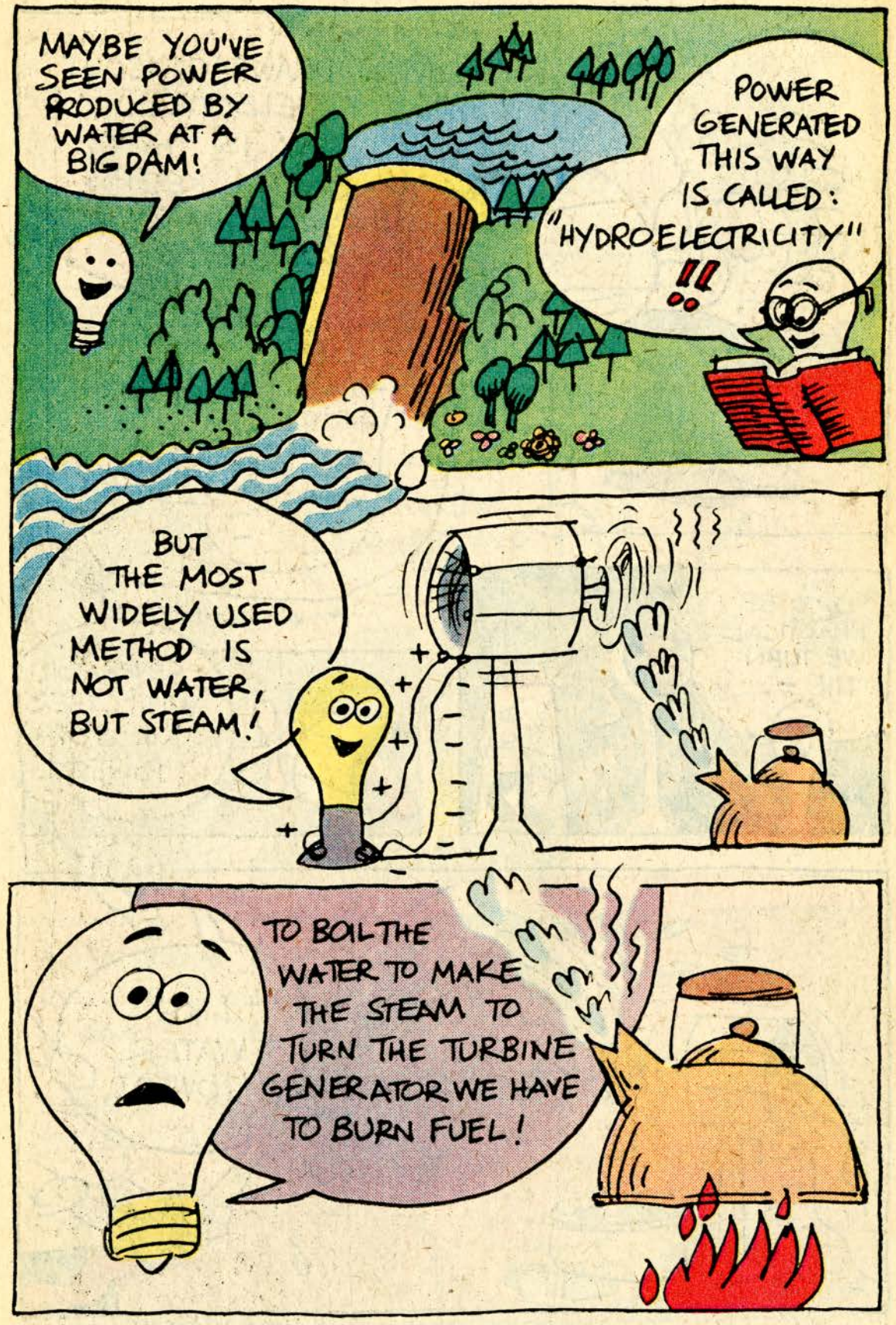

AND THE WAY IT GETS MADE IN A POWER PLANT IS THE SAME AS IN THIS LITTLE TURBINE GENERATOR!

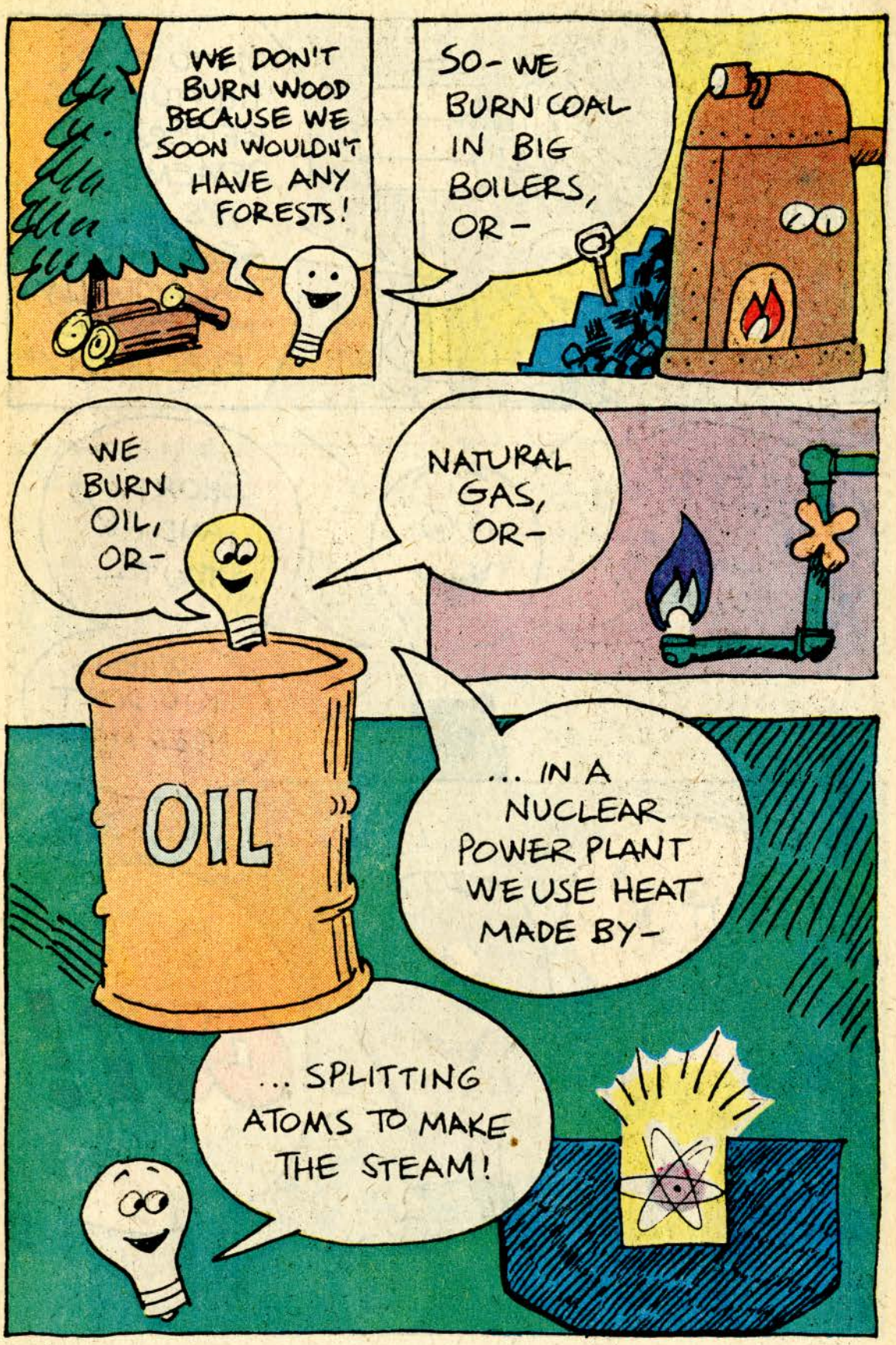

IT'S GOT A BIG MAGNET AND WIRES!
MAGNET

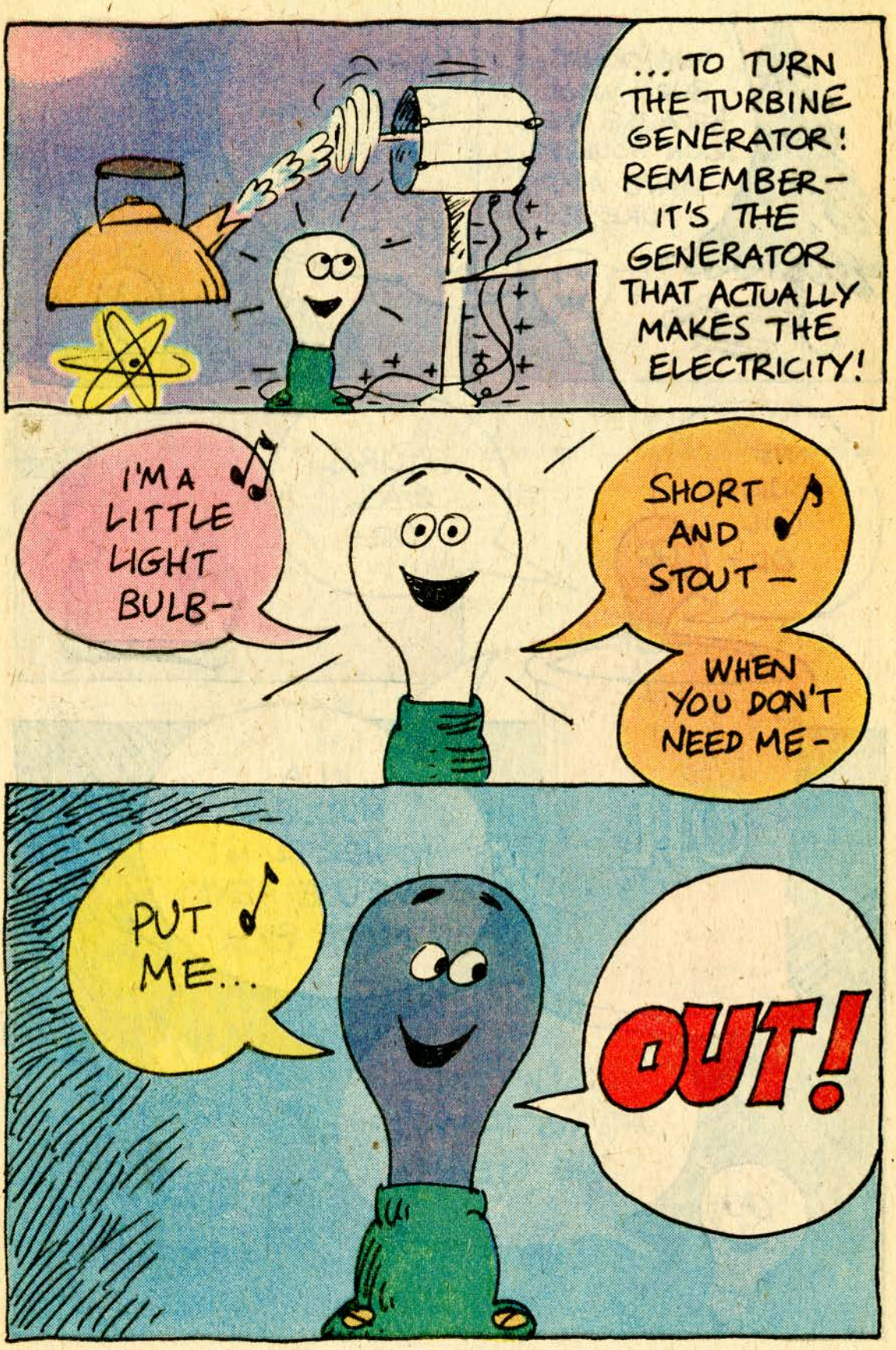
MAGNETS PRODUCE A FORCE INSIDE THEIR "MAGNETIC FIELD"!


WHEN WIRES ARE ROTATED THROUGH A MAGNETIC FIELD, AN ELECTRIC CURRENT IS PRODUCED!
WE USE PLUS AND MINUS SIGNS TO SHOW THE FLOW OF CURRENT!

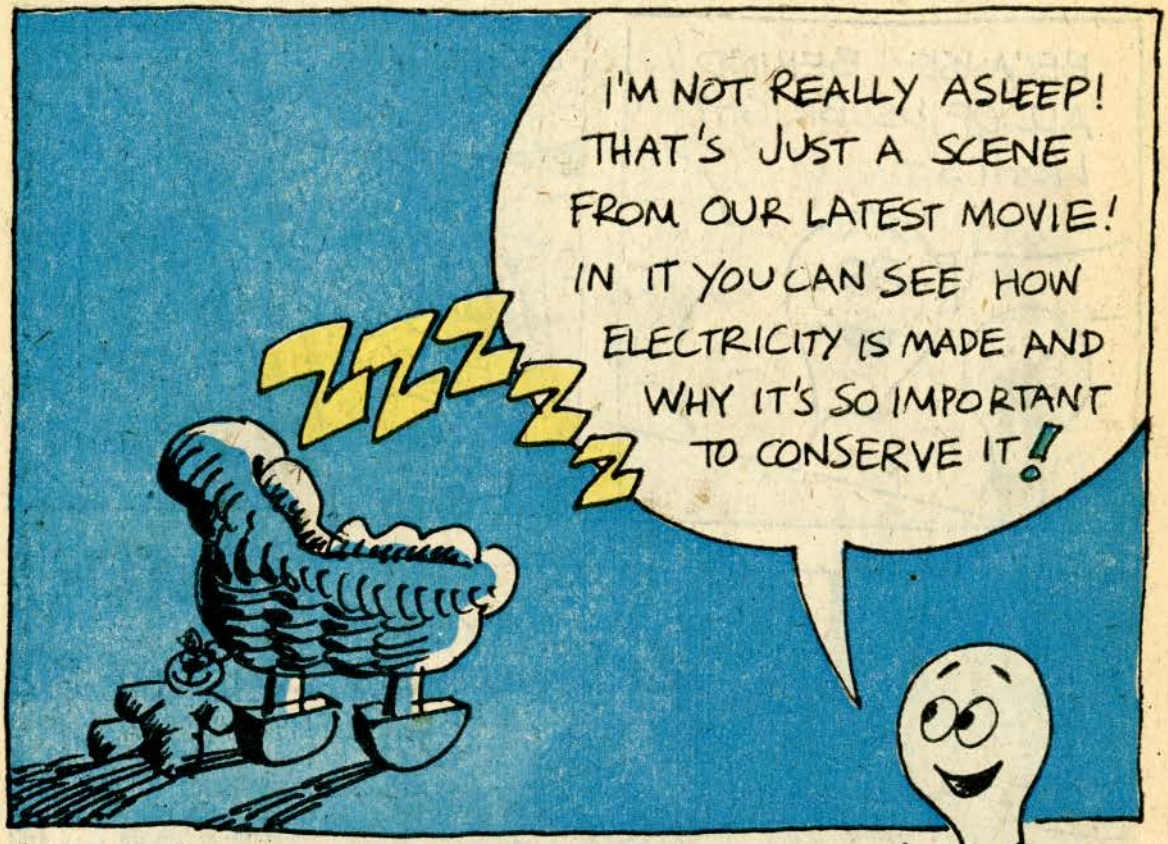

THE ONLY DRAWBACK ABOUT MAKING ELECTRICITY THIS WAY IS THAT YOU HAVE TO KEEP THE GENERATOR GOING!!
SO, TO BE PRACTICAL WE TURN THE -
-GENERATOR WITH OTHER KINDS OF POWER...
- LIKE WATER POWER!


MAYBE YOU'VE SEEN POWER PRODUCED BY WATER AT A BIG DAM!
POWER GENERATED THIS WAY IS CALLED: "HYDROELECTRICITY" !!
BUT THE MOST WIDELY USED METHOD IS NOT WATER, BUT STEAM!
TO BOIL THE WATER TO MAKE THE STEAM TO TURN THE TURBINE GENERATOR WE HAVE TO BURN FUEL!


WE DON'T BURN WOOD BECAUSE WE SOON WOULDN'T HAVE ANY FORESTS!
SO- WE BURN COAL IN BIG BOILERS, OR-
WE BURN OIL, OR-
NATURAL GAS, OR-
OIL
... IN A NUCLEAR POWER PLANT WE USE HEAT MADE BY-
... SPLITTING ATOMS TO MAKE THE STEAM!


... TO TURN THE TURBINE GENERATOR! REMEMBER— IT'S THE GENERATOR THAT ACTUALLY MAKES THE ELECTRICITY!
I'M A LITTLE LIGHT BULB—
SHORT AND STOUT—
WHEN YOU DON'T NEED ME—
PUT ME...
OUT!

BECAUSE BEHIND ALL OF US BRIGHT LIGHTS –
BACKING UP THE SCENE –
NOW PLAYING
... THERE'S A GENERATOR HARD AT WORK, NEEDING LOTS AND LOTS OF FUEL! SO IT PAYS...
... FOR ALL OF US TO CONSERVE OUR ELECTRICITY IN WHATEVER WAY WE CAN!
GOOD NIGHT!
ON
OFF



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